



# KBJ25005 THRU KBJ2510

## SINGLE PHASE 25.0 AMP BRIDGE RECTIFIERS



### FEATURES

- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Mounting position: Any

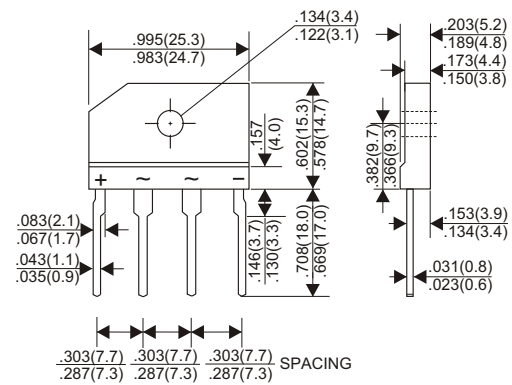
### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

25.0 Amperes

### KBJ



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

TYPE NUMBER	KBJ25005	KBJ2501	KBJ2502	KBJ2504	KBJ2506	KBJ2508	KBJ2510	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heatsink Note 2)								25.0	A
.375"(9.5mm) Lead Length at Tc=100°C (With heatsink)								4.2	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								350	A
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.								1.05	V
Maximum DC Reverse Current Ta=25°C								10	A
at Rated DC Blocking Voltage Ta=125°C								500	A
Typical Junction Capacitance (Note 1)								85	PF
Typical Thermal Resistance R <sub>jc</sub> (Note 2)								0.6	°C/W
Operating Temperature Range, T <sub>J</sub>								-55 — +150	°C
Storage Temperature Range, T <sub>STG</sub>								-55 — +150	°C

#### NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance from Junction to Case with device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

## RATING AND CHARACTERISTIC CURVES (KBJ25005 THRU KBJ2510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

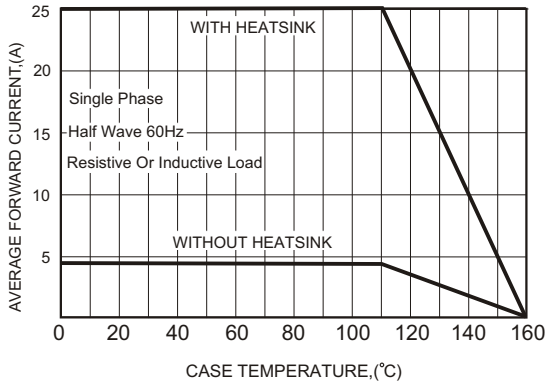


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

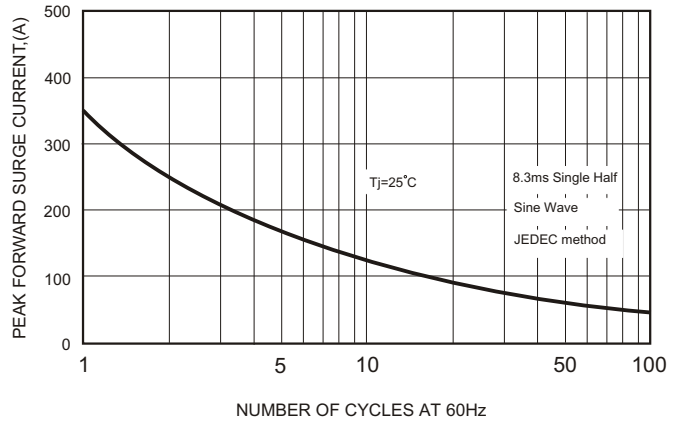


FIG.3-TYPICAL FORWARD CHARACTERISTICS

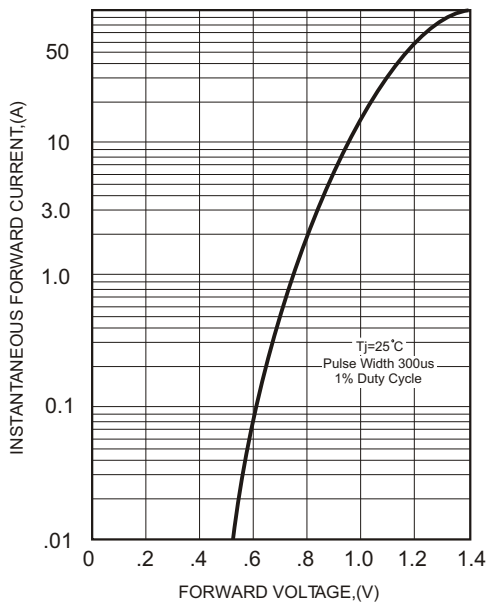


FIG.4-TYPICAL REVERSE CHARACTERISTICS

